

CONSERVATION RECORDS

Cropland Inventory

*(includes hay land, orchards, vineyards,
Christmas trees, and berries)*

- C-2..... Worksheet C1: *Crop Rotation and Management***
- C-4..... Worksheet C2: *Crop and Residue Management***
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Christmas Trees and Berries***
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Name: _____

Farm/Ranch: _____

Crop Rotation and Management



The ***Crop Rotation and Management*** worksheet captures information regarding the crops you grow and the crop rotation used on your operation. Please fill out this form if you have cropland or hay land that has a rotational sequence. Follow the example below when entering your information on the following page.

EXAMPLE

Worksheet C1: Crop Rotation and Management

Field Number or Name	Typical Rotation Sequence									
	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 6	Yr 7	Yr 8	Yr 9	Yr 10
3 & 4	Perennial/Rye Grass Seed				Crimson Clover	Winter Wheat				
5, 6, & 7	Alfalfa			Potatoes	Winter Wheat	Potatoes	Corn			
1, 2, & 8	Winter Wheat	Spring Barley	Summer Fallow							
all	Winter Wheat	Winter Wheat	Carrots, Seed	Winter Wheat	Orchard Grass	Winter Wheat	Winter Wheat			

Additional Comments or Observations:

Crop Rotation and Management

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Worksheet C1: Crop Rotation and Management

Field Number or Name	Typical Rotation Sequence									
	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 6	Yr 7	Yr 8	Yr 9	Yr 10

Additional Comments or Observations:

Crop Residue Management



The **Crop Residue Management** worksheet captures information regarding the crop residues on your fields. Complete this form only if you have cropland. This worksheet does not apply to alfalfa, hay, or other forage crops. You do not need to complete this worksheet if you have forage crops. If you have orchards, vineyards, Christmas trees or berries please skip the following questions and move to the **Residue Management: Orchards, Vineyards, Christmas Trees and Berries** worksheet on page C6.

Please follow the example below when entering your information on the following page.

EXAMPLE

Worksheet C2: Crop and Residue Management

1	2	3	4	5	6	7
Crop	Field/Unit	Planting Date	Harvest Date	Average Yield per Acre	Is Residue Removed?	Removal Method
Winter Wheat	103, Lower	10/1 to 10/5	8/1 to 8/10	100 bu (irr) 60 bu (Nlrr)	N	----
Perennial Rye Grass for seed	216	8/20	7/5 to 7/15	1500 lbs/acre	Y	Swath, Bale & Burn
Crimson Clover for seed	316, 26	8/15	6/25	800 lbs/acre	N	----
Spring Barley	16, 18, 12	4/1	7/20	3,000 lbs/acre	N	----
Corn, Field	3,6,25	5/10	10/15 to 10/20	130 bu	Y	Tillage

Crop Residue Management

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Worksheet C2: Crop and Residue Management

1	2	3	4	5	6	7
<i>Crop</i>	<i>Field/Unit</i>	<i>Planting Date</i>	<i>Harvest Date</i>	<i>Average Yield per Acre</i>	<i>Is Residue Removed?</i>	<i>Removal Method</i>

Additional Comments or Observations:

Orchards, Vineyards, Christmas Trees and Berries



The **Crop Residue Management - Orchards, Vineyards and Christmas Trees** worksheet captures information regarding crop residues on your fields. Please complete this worksheet only if you have orchards (i.e., cherry, pear, apple and hazelnut), vineyards, Christmas trees, or berry crops (i.e., blueberries, cranberries, caneberries and strawberries).

Under the **Crop** column, please include the variety of the tree, grape or berry grown. Fields with the same characteristics may be listed on one line.

Follow the example below when entering your information on the following page.

EXAMPLE

Worksheet C3: Residue Management: Orchards, Vineyards Christmas Trees, Berries

Crop	Field/Unit	Average Harvest Yield	Distance Between Rows	Spacing within Row
Pinot Noir Grapes	1	5 T	8 ft	N/A
Noble Fir Christmas Trees	3	1,400 Trees	5'	5'
Comice Pears	4	700 bu	8'	20 ft
Thornless Evergreen Blackberries	7	4 T	10 ft	N/A

Do you maintain cover between the rows? If so, what type?

Yes, mixed grasses are used as a cover crop between the rows. Mowed 4 times. Tree prunings are chipped and spread between rows.

Orchards, Vineyards, Christmas Trees and Berries

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Worksheet C3: Residue Management: Orchards, Vineyards Christmas Trees, Berries

Crop	Field/Unit	Average Harvest Yield	Distance Between Rows	Spacing within Row

Do you maintain cover between the rows? If so, what type?

Field Operations



The **Field Operations** worksheet captures information on your typical tillage operations, pest control strategies, residue management, harvest, and irrigation water application. Complete a worksheet for each crop in your rotation. Begin with the first operation completed after harvest of the previous crop. **Table C1: Typical Field Operations** on pages C-10 and 11, lists the typical tillage operations to complete the **Typical Operation for Crop** column. Use the tillage operation number from the **Table C1** to complete the column.

For orchards, vineyards and other similar crops please include row operations as well as other field operations (mowing, mulching, etc.).

Follow the example below when entering your information on the following page.

EXAMPLE

Worksheet C4: Field Operations

Field(s):	1, 2, 3, 16, 20			
Crop Planted and Yield:	Potato 530 cwt.,	Previous Crop and Yield:	Alfalfa Hay 7 tons/acre	
Include information on operations such as: tillage, spray, irrigation, grazing, harvest, pest control etc.				
Date of Operation	Typical Operation for Crop	Comments on Operation	Monthly Irrigation Dates	Irrigation Application
10/16/00	27 (Heavy Offset Disk)	12 inches deep		
10/20/00	121 (Sub Soiler)	30 inch spacing, 24 inch depth		
2/15/01	29 (Tandem Disk)		2/15-3/15	2 inches
3/15/01	6 (Bedder, Disk Hiller)			
4/1/01	Planter 30 inch Rows		4/1-5/1	3 inches
5/1/01	19 (Cultivator, Disk Hiller on Beds)		5/1-6/1	4 inches
5/10/01	49 (Dammer Diker)			
5/15/01	Insecticide Spray - Aerial			
6/1/01	119 (Herbicide Spray - Aerial)		6/1-7/1	6 inches
6/15/01	Insecticide Spray - Aerial			
7/1/01	119 (Herbicide Spray - Aerial)		7/1-8/1	8 inches
			8/1-9/15	6 inches
10/15/01	68 (Harvest, Dig Potatoes)		10/15-11/1	2 inches

Field Operations

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Worksheet C4: Field Operations

Field(s):				
Crop Planted and Yield:		Previous Crop and Yield:		
<i>Include information on operations such as: tillage, spray, irrigation, grazing, harvest, pest control etc.</i>				
Date of Operation	Typical Operation for Crop	Comments on Operation	Monthly Irrigation Dates	Irrigation Application

Typical Field Operations

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Table C1: Typical Field Operations

Alphabetical List of Field Operations
<i>Use corresponding number on Worksheet C3.</i>
1. Aerator, field surface, ground driven
2. Aerial seeding
3. Bale straw or residue
4. Bed shaper
5. Bed shaper, 12 in
6. Bedder, hipper, disk hillier
7. Bedder, hipper, hillier 12 in high
8. Bedder, hipper, hillier 15 in high
9. Bedder, hipper, hillier 18 in high
10. Burn residue
11. Chisel, st. pt.
12. Chisel, st. pt. 12 in deep
13. Chisel, st. pt. 15 in deep
14. Chisel, sweep shovel
15. Chisel, twisted shovel
16. Cultipacker, roller
17. Cultivator, field 6-12 in sweeps
18. Cultivator, field w/ spike points
19. Cultivator, hipper, disk hillier on beds
20. Cultivator, off bar w/disk hilliers on beds
21. Cultivator, row - 1st pass ridge till
22. Cultivator, row - 2nd pass ridge till
23. Cultivator, row 1 in ridge
24. Cultivator, row 3 in ridge
25. Cultivator, row, high residue
26. Disk, offset, heavy
27. Disk, offset, heavy 12 in depth
28. Disk, offset, heavy 15 in depth
29. Disk, tandem heavy primary op.
30. Disk, tandem light finishing
31. Disk, tandem secondary op.
32. Drill or air seeder single disk openers 7-10 in space.
33. Drill or air seeder, hoe opener in hvy residue
34. Drill or air seeder, hoe/chisel openers 6-12 in space.
35. Drill or air seeder, double disk
36. Drill or air seeder, double disk opener, w/ fertilizer openers
37. Drill or air seeder, double disk, w/ fluted coulters
38. Drill or air seeder, offset double disk openers

Alphabetical List of Field Operations
<i>Use corresponding number on Worksheet C3.</i>
39. Drill, air seeder, sweep or band opener
40. Drill, deep furrow 12 to 18 in spacing
41. Drill, heavy, direct seed, double disk opener
42. Drill, heavy, direct seed, double disk opener w/row cleaners
43. Drill, semi-deep furrow 12 to 18 in spacing
44. Fertilizer application, anhyd knife 12 in
45. Fertilizer application, deep plcmnt hvy shank
46. Fertilizer application, surface broadcast
47. Fertilizer application, anhyd knife 30 in
48. Fertilizer application, strip-till 30 in
49. Furrow diker
50. Furrow shaper, torpedo
51. Graze, continuous
52. Graze, intensive rotational
53. Graze, rotational
54. Graze, stubble or residue
55. Hand Planting
56. Harrow, coiled tine
57. Harrow, heavy
58. Harrow, rotary
59. Harrow, spike tooth
60. Harrow, tine, on beds
61. Harvest, grass or legume seed, leave forage
62. Harvest, grass seed, remove forage
63. Harvest, hay, grass
64. Harvest, hay, legume
65. Harvest, hay, no regrowth
66. Harvest, small grains, corn, peas, canola, mustard
67. Harvest, legume seed, remove forage
68. Harvest, root crops, digger
69. Harvest, silage
70. Harvest, snapper header
71. Harvest, stripper header
72. Knife, windrow dry beans
73. Land plane
74. Lister, 40 in
75. Manure injector
76. Manure spreader
77. Mower, swather, windrower
78. Mulch treader

Typical Field Operations

Table C1: Typical Field Operations

Continued from previous page

Alphabetical List of Field Operations Use corresponding number on Worksheet C3.	Alphabetical List of Field Operations Use corresponding number on Worksheet C3.
79. Para-plow or para-till	105. Roller, corrugated packer
80. Permeable weed barrier applicator	106. Roller, on beds
81. Planter, double disk opener	107. Roller, residue
82. Planter, double disk opener w/fluted coulter	108. Roller, smooth
83. Planter, double disk opener, 18 in rows	109. Rotary hoe
84. Planter, in-row subsoiler	110. Rototiller, field
85. Planter, small veg seed	111. Rototiller, field, add residue
86. Planter, strip till	112. Rototiller, row cult add residue
87. Planter, transplanter, vegetable	113. Rototiller, row cultivator
88. Planter, transplanter, vegetable, no-till	114. Seedbed finisher
89. Planting, broadcast seeder	115. Shredder, flail or rotary
90. Plastic mulch applicator 100 percent cover	116. Shredder, rotary, regrow veg
91. Plastic mulch applicator 40 percent cover	117. Shredder, rotary, remove residue
92. Plastic mulch applicator 75 percent cover	118. Sprayer, kill weeds, volunteer for reduced/ no till
93. Plastic mulch, 05 percent removal	119. Sprayer, post emergence
94. Plastic mulch, 10 percent removal	120. Strip-tiller w/middlebuster on beds
95. Plastic mulch, 25 percent removal	121. Subsoiler
96. Plastic mulch, 50 percent removal	122. Subsoiler bedder (ripper/hipper)
97. Plastic mulch, remove	123. Subsoiler ripper, 24 to 40 in. deep
98. Plow, disk	124. Sweep plow 20-40 in wide
99. Plow, moldboard	125. Sweep plow wider than 40 in w/mulch treader
100. Plow, moldboard, conservation	126. Sweep plow, wider than 40 in
101. Plow, moldboard, up hill	
102. Plow, reversible	
103. Pruning	
104. Rodweeder	

Crop Fertilizer



The **Crop Fertilizer Worksheet** captures information on the nutrient applications on your operation. In the **Soil Test** column, please write "YES" or "NO" to indicate whether fertilizer application is based on soil test results. Also indicate how often soil testing is completed. Please attach a copy of the latest soil test for each field. Follow the example below when entering your information on the next page.

EXAMPLE

Worksheet C4: Crop Fertilizer

Crop Grown	Field/ Unit	Fertilizer Formulation	Application Rate lbs/ac	Application Method and Date	Application Depth	Soil Test
Perennial Rye Grass Seed	3 & 4	16-20-0	100 lbs/acre	Banded at fall planting	2 inches	Yes, every year
Perennial Rye Grass	3 & 4	45-0-0	300 lbs/ acre	Broadcast in Feb. & application in April	Surface	No
Crimson Clover	3 & 4	None	----	----	----	----
Winter Wheat	3 & 4	16-16-16	100 lbs/acre	Banded at seeding in fall	2 inches	No
Corn	5, 6, & 7	Feedlot Manure	10 tons/acre	Broadcast April	Disk to 4 inch depth	No
Alfalfa	5, 6, & 7	0-0-50-18	200 lbs/acre	Broadcast at seeding	Disk in	No
Potato	5, 6, & 7	20-10-10	500 lbs/acre	Banded at Planting	4 inches	Yes, every 2 years
Potato	5, 6, & 7	46-0-0	200 lbs/acre	Broadcast	Irrigated in	No

1. If irrigated, has water been tested for nitrates? <i>Attach any available nitrate tests to this page.</i>	Yes	✓	No	
2. Do you apply nutrients according to NRCS, OSU Extension, or accredited industry recommendations or realistic yield goals?	Yes	✓	No	
3. Do you properly dispose of rinse water after cleansing fertilizer application equipment?	Yes	✓	No	
4. Do you calibrate your equipment? If yes, how often?				
Yes, once prior to application season.				

5. If fields are located near a surface water source, do you have designated set-back areas (buffers, vegetation)? If so, what is the approximate width of the area?
60 foot buffer with mixture of herbaceous vegetation and grasses.
Equal amount of native trees and shrubs.

Crop Fertilizer

Worksheet C4: Crop Fertilizer

Crop Grown	Field/Unit	Fertilizer Formulation	Application Rate lbs/ac	Application Method and Date		Application Depth	Soil Test

1. If irrigated, has water been tested for nitrates? <i>Attach any available nitrate tests to this page.</i>	Yes	No	
2. Do you apply nutrients according to NRCS, OSU Extension, or accredited industry recommendations or realistic yield goals?	Yes	No	
3. Do you properly dispose of rinse water after cleansing fertilizer application equipment?	Yes	No	
4. Do you calibrate your equipment? If yes, how often?			

5. If fields are located near a surface water source, do you have designated set-back areas (buffers, vegetation)? If so, what is the approximate width of the area?

Pest Management



The **Pest Management Worksheet** captures information on the methods used to control plant pests, weeds, and diseases. The following bullets include additional information to assist in completing this worksheet.

- In the **Suppression Method** column, include the product name or active ingredient of the chemical used to manage the target pest listed. If you know the EPA Registration Number, list that as well.
- In the **Pesticide Application Rate** column, include the application rate of the active ingredient (ai).
- In the **Broadcast or Banded** column, indicate whether the pesticide was broadcast (more than 50% of field) or banded (less than 50% of field). If these options do not apply, simply indicate that they are not applicable.
- In the **Surface, Soil Incorporated or Foliar Applied** column, indicate whether the pesticide was surface-applied (applied to soil surface), soil-incorporated (mixed into the soil with light tillage or irrigation), or a foliar application (sprayed on a nearly full crop/weed canopy and/or on a more than 50 percent residue cover). If none of these practices apply, simply indicate that they are not applicable.
- Under the **Application Method** column, indicate whether fertilizer was ground applied or aerially applied.

Please refer to the example below when entering your information on the following page.

EXAMPLE

Worksheet C5: Pest Management

Crop Grown	Field Number	Target Pest	Suppression Method (EPA Reg. #)	Pesticide Application Rate	Date Applied	Broadcast or Banded	Surface, Soil-Incorp., or Foliar Application
Winter Wheat	6	Downy Brome	Metribuzin 101101	.3 lbs of ai/ac	10/1	Broadcast	Surface
Spring Barley	3	Broadleaf Weeds	2, 4-D 030001	.75 lbs of ai/ac	Late May	Broadcast	Foliar
Corn	1	Weeds	Row cultivation 2x	----	5/1 to 5/20	----	----
Alfalfa	5	Clover Leaf Weevil	Malathion 057701	1.0 lbs of ai/ac	When needed	Broadcast	Foliar
Potatoes	4	Wireworm	Phorate 057201	3.02 lbs ai per 1,000 feet of row	At planting	Banded	Soil-Incorporated

1. Do you apply pesticides based on field scouting, treatment thresholds and follow-up evaluations?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
2. Do you replace worn nozzle tips, cracked hoses and faulty gauges?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
3. Do you properly dispose of rinse water after cleansing pesticide application equipment?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

4. If fields are located near a surface water source, do you have designated set-back areas (buffers, vegetation)? If so, what is the approximate width of the area?
60 foot buffer with mixture of herbaceous vegetation and grasses.
Equal amount of native trees and shrubs.

Pest Management

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Worksheet C5: Pest Management

Crop Grown	Field Number	Target Pest	Suppression Method (EPA Reg. #)	Pesticide Application Rate	Date Applied	Broad-Cast or Banded	Surface, Soil-Inc., or Foliar Application

1. Do you apply pesticides based on field scouting, treatment thresholds and follow-up evaluations?	Yes	No
2. Do you replace worn nozzle tips, cracked hoses and faulty gauges?	Yes	No
3. Do you properly dispose of rinse water after cleansing pesticide application equipment?	Yes	No
4. If fields are located near a surface water source, do you have designated set-back areas (buffers, vegetation)? If so, what is the approximate width of the area?		

Notes

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